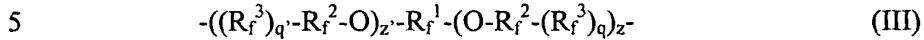


CLAIMS

1. A composition comprising a mixture of
 - (a) a fluorinated polyether isocyanate derived silane or a mixture thereof comprising the reaction product of:
 - 5 (i) a fluorinated polyether compound of the formula
$$(T'_{k'}-Q')_y-R_f-Q-T_k \quad (I)$$
wherein R_f is a monovalent or divalent polyfluoropolyether group; Q and Q' is independently a chemical bond, a divalent organic linking group or a trivalent organic linking group; T and T' each independently represent -NCO or an isocyanate reactive group; k' is an integer from 0 to about 5; k is at least 2; and y is 0 or 1 and;
 - (ii) a silane compound of the formula
$$T''-Q''-Si(Y_{3-x})R'_x \quad (II)$$
wherein T'' is -NCO or an isocyanate reactive group; Q'' is an organic divalent linking group; R' is an alkyl group or an aryl group; Y is a hydrolyzable group; and x is 0 or 1; and wherein at least one of T or T'' is -NCO; and
 - (b) an organic solvent.
- 20 2. The composition of claim 1 wherein the isocyanate reactive group is selected from the group consisting of -CO₂R³, where R³ is hydrogen or hydroxyalkyl, -C(O)N(R¹)(R²), where R¹ and R² are independently hydrogen, hydroxyalkyl or polyalkylenepolyamine; -OH, -SH, and NHR¹.
- 25 3. The composition of claim 1 further comprising a surfactant.
4. The composition of claim 3 wherein said surfactant is a fluorosurfactant.
5. The composition of claim 1 wherein said organic solvent comprises an organic solvent capable of dissolving at least 0.01% by weight of the fluorinated polyether isocyanate derived silane or mixture thereof.

6. The composition of claim 1 wherein said organic solvent comprises a fluorinated organic solvent.

7. The composition of claim 1 wherein R_f in Formula (I) is of the formula:



wherein R_f^1 is a perfluorinated alkyl or a perfluorinated alkylene group, R_f^2 is a perfluorinated polyalkyleneoxy group consisting of perfluorinated alkyleneoxy groups having 1, 2, 3 or 4 carbon atoms or a mixture of such perfluorinated alkyleneoxy groups; R_f^3 is a perfluorinated alkylene group or a substituted perfluorinated alkyl group; q and q' are independently chosen from 0 or 1; z is from 4 to 30, and z' is 0 to 30.

10 8. The composition of claim 7 wherein R_f^2 comprises repeating units selected from the group consisting of $-(C_nF_{2n}O)-$, $-(CF(Z)O)-$, $-(C_nF_{2n}CF(Z)O)-$, and $-(CF_2CF(Z)O)-$, and combinations thereof, wherein n is at least 1 and wherein Z is a fluorine atom, a perfluoroalkyl group, a substituted perfluoroalkyl group, a perfluoroalkoxy group, or a substituted perfluoroalkoxy group.

15 9. The composition of claim 7 wherein R_f^3 comprises repeating units selected from the group consisting of $-(C_nF_{2n}O)-$ and $-(CF(Z)O)-$, and combinations thereof, wherein n is at least 1 and wherein Z is a fluorine atom, a perfluoroalkyl group, a substituted perfluoroalkyl group, a perfluoroalkoxy group, or a substituted perfluoroalkoxy group.

20 10. The composition of claim 1, wherein R_f is
 $-CF_2O(CF_2O)_m(C_2F_4O)_pCF_2-$, $-CF_2O(C_2F_4O)_pCF_2-$, -
25 $CF(CF_3)(OCF_2(CF_3)CF)_pO(CF_2)_mO(CF(CF_3)CF_2O)_pCF(CF_3)-$,
 $CF_3CF_2CF_2O(CF(CF_3)CF_2O)_pCF(CF_3)-$, or combinations thereof, where an average value for m and p is 0 to 50 and m and p are not independently 0.

30 11. The composition of claim 1 wherein R_f is $CF_3CF_2O(CF_2O)_m(C_2F_4O)_pCF_2-$,
 $-CF(CF_3)(OCF_2(CF_3)CF)_pO(CF_2)_mO(CF(CF_3)CF_2O)_pCF(CF_3)-$, $CF_3CF_2O(C_2F_4O)_pCF_2-$,
 $CF_3CF(CF_3)O-(CF(CF_3)CF_2O)_pCF(CF_3)-$, or combinations thereof, where an average value for m and p is 0 to 50 and m and p are not independently 0.

12. The composition of claim 1 wherein Q is a chemical bond, Q" is $-(C_nH_{2n})-$, where n is 2 to 6, x is 0 and Y is a C₁-C₄ alkoxy group.

5 13. A method for treating a substrate comprising the step of applying a composition according to claim 1 to said substrate.

14. The method of claim 13 wherein said method further comprises curing the applied composition at elevated temperature.

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15. The method of claim 13 wherein said substrate is a ceramic or a glass substrate.

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16. The method of claim 13 wherein the substrate is an antireflective surface, wherein said coating composition forms an antisoiling coating thereon.

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17. The method of claim 16 wherein the antisoiling coating is less than about 100 Angstroms thick and comprises a fluorinated isocyanate derived siloxane film in an amount that does not significantly reduce the antireflective characteristics of the antireflective article.

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18. A composition comprising a mixture of:

(a) a fluorinated polyether isocyanate derived silane or a mixture thereof comprising the reaction product of:

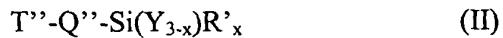
(i) a fluorinated polyether compound of the formula



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wherein R_f is a monovalent or divalent polyfluoropolyether group; Q and Q' is independently a chemical bond, a divalent organic linking group or a trivalent organic linking group; T and T' are each independently $-NCO$ or an isocyanate reactive group; k' is an integer from 0 to about 5; k is at least 2; and y is 0 or 1 and;

(ii) a silane compound of the formula



wherein T'' is $-NCO$ or an isocyanate reactive group; Q'' is an organic divalent linking group; R' is an alkyl group or an aryl group; Y is a hydrolyzable group; and x is 0 or 1, and wherein at least one of T or T'' is $-NCO$.

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19. The composition of claim 18 wherein the isocyanate reactive groups are selected from the group consisting of $-CO_2R^3$, where R^3 is hydrogen or hydroxyalkyl, $-C(O)N(R^1)(R^2)$, where R^1 and R^2 are independently alkanol or polyalkylenepolyamine), $-OH$, $-SH$, and NHR' .

10 20. The composition of claim 18 wherein R_f is a divalent polyfluoropolymer group.

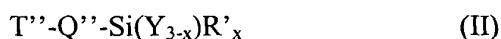
15 21. A composition of claim 18 wherein Q is a chemical bond; Q'' is $-(C_nH_{2n})-$, where n is 2 to 6; x is 0, and Y is a C_1-C_4 alkoxy group.

22. An article having a surface, at least a portion of said surface having a coating thereon, said coating comprising the reaction product of:

20 (i) a fluorinated polyether compound of the formula
$$(T'_{k'}-Q')_y-R_f-Q-T_k \quad (I)$$
wherein R_f is a monovalent or divalent polyfluoropolyether group; Q and Q' is independently a chemical bond, a divalent organic linking group or a trivalent organic linking group; T and T' are each independently $-NCO$ or an isocyanate reactive group; k' is an integer from 0 to about 5; k is at least 2; and y is 0 or 1 and;

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(ii) a silane compound of the formula



30 wherein T'' is $-NCO$ or an isocyanate reactive group; Q'' is an organic divalent linking group; R' is an alkyl group or an aryl group; Y is a hydrolyzable group; and x is 0 or 1, and wherein at least one of T or T'' is $-NCO$.

23. The article of claim 22 wherein said article is a ceramic or glass substrate.